RI

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
DIVISION OF FOREST ENVIRONMENT
1037 Hartford Pike
North Scituate, R.I. 02857
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SUMMARY OF FOREST AND URBAN PEST CONDITIONS REPORT FOR RHODE ISLAND - 1993

Saddled Prominent - The only area surveyed for this insect and where defoliation was high, was in the Arcadia Management area in Washington County. Surveys of this area were conducted on my own and with George Saufley, Forest Service, Durham, NH. Approximately 2,211 acres of defoliation occurred through an aerial survey conducted in July, 1993. During the Fall of 1992 and 1993, pupal surveys were conducted and during the Summer of 1993, egg and larval counts were conducted. These surveys will continue next year, as well. The trend of this insect is hard to determine at the present time, but current and future surveys will make the future trend of this insect easier to determine.

Hemlock Woolly Adelgid - Most of the sites checked for the HWA were on residential property. Please see Amy Snyder, Forest Service, Durham, NH for detailed results of survey conducted in RI between April 20, 1993 and July 20, 1993. She has a copy of report, dated August 19, 1993. The sites checked this year for the spread of HWA, was the first time they have been checked in 5 years. The spread of HWA in RI has been significant, based on this survey, calls I received, and my own survey that I conducted. The HWA is as far north as Pawtucket, RI, as far as I know. On residential properties, the trend may be for control, but it may take some time. I feel the trend of HWA in RI will steadily continue to move northward and more inland.

Red Pine Scale - In Washington County, RI, approximately 75 - 100 acres have been affected by the Red Pine Scale, including 30 - 50 acres in Burlingame State Park, also in Washington County. This insect has been in RI for about 5 years, and the trend, as I see it, will be that this insect will continue to spread and be a continual problem in the future.

Orangestriped Oakworm - In Providence County, RI, approximately 600 acres were damaged by this insect. Most of the area affected is adjacent to the Scituate Reservoir. With the damage information presented on this insect in this area and for residential properties, the trend, as I see it, is that this insect will continue to be a problem in RI.

RI

Pear Thrips - Only one site for Pear Thrips was checked this year. The site was adjacent to the Scituate Reservoir in Providence County, RI, and was monitered with the cooperation of the University of Rhode Island and the Providence Water Supply Board. There was no significant damage to sugar maple trees due to this insect, and thus, no acreage damage recorded. I feel this insect will not play a major role, as far as damage is concerned to sugar maple trees in the state of RI in the furure.

Other Insect/Plant Disease Problems Found In Rhode Island On Residential Properties -

Boxelder Bug
Black Knot
Anthracnose
Bladder Galls
Horntail
White Pine Weevil
Balsam Woolly Adelgid
Cooley Spruce Gall Adelgid
Spider Mites
Eastern Tent Caterpillar
Cedar Apple Rust
Eriophyid Galls
Mountain Ash Sawfly
Birch Leaf Miner
Pine Bark Beetle
Japanese Beetle
Elm Spanworm
Gymnosporangium Rust

Fall Webworm was found on the edges of some wooded areas.

Forest Pest Conditions Report compiled by Lawrence R. Hamerow, Entomologist
Division of Forest Environment/DEM
North Scituate, RI 02857
November, 1993

RF

FOREST HEALTH WORKSHEET

Damage (circle) 1/

- Defoliation
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

NO SIGNIFICANT DAMAGE

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch (circled)
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host

SUGAR MAPLE

Secondary Host

BIRCH, BEECH, ASH, CHERRY, APPLE, PEAR, PLUM

Tertiary Host

Survey Type (circle)

- Aerial sketchmapping
- Ground (circled)
- Photo
- Other
- Trapping (circled)

Damage Causing Agent

PEAR THRIPS

Scientific Name TAENIOTHRIPS INCONSEQUENS

County(s) Affected	Damage Acres or No. of Trees	Class 2/
PROVIDENCE	NO SIGNIFICANT DAMAGE	—

Comments (trend/treatment)

the week for more, I for other trees checked for the same [illegible]. But since there is no injury to the leaves in RI and the "cause" of your thrips damage was made in FL, due to the damage caused by the same thrips in northern FL & Ga. Mites and aphids did not help, only one site was surveyed this year. This site was adjacent to the Atlantic Ocean, [illegible] Rt. 1A and Rt. 6. This site was surveyed with the cooperation of the University of Rhode Island and the Providence Water Supply Board. The level of this insect, as I see it now, is that it will not be a serious pest in RI in the future. Please [illegible] from the two sites.

1/ Do not list "Statewide".

2/ See back of form for damage class instructions.

RI

1993

PEAR THRIPS MULTISTATE PROJECT
DATA SHEET

LOCATION: State: RI, Co: Providence Site Scituate

TYPE OF STAND: Sugar maple

NAME & ADDRESS: Horseshoe Dam — Mark Tremblay, 552 Academy Ave, Providence, RI 02908

- no maple industry in RI
- problem of "scare" of pear thrips never came in RI
- few leaves here + there
- no acreage damage

PART 1: TRAP COUNTS

SETUP DATE: 4/7/93

WEEK NO.	DATES: SCHEDULE CHECK	DATES: ACTUAL CHECK	PEAR THRIPS COUNTS: TRAP 1	TRAP 2	TRAP 3	TRAP 4	TOTAL TRAP CATCH	AVE per Trap
1		4/21	14	21	4	0	39	9.75
2		4/28	54	87	42	19	202	50.50
3		5/5	2	9	6	2	19	4.75
4		5/12	4	7	8	9	28	7
5		5/19	0	4	3	1	8	2
6		5/26	0	2	3	0	5	1.25
7								
8								

PART 2: PHENOLOGICAL STAGES OF SUGAR MAPLE TREES

TREE PHENOLOGY STAGES	LIST DATES OF MAPLE TREE PHENOLOGY STAGES FOR EACH TREE: TREE 1	TREE 2	TREE 3	TREE 4	TREE 5	TREE 6	TREE 7	TREE 8
Buds dormant								
Buds swollen, <1" long								
Buds swollen, 1" long but still closed								
Buds 1-1.5" opening with leaf tips showing								
Leaves up to 1" long								
Leaves up to 2" long								
Leaves full-sized (>6" long)								

RI

FOREST HEALTH WORKSHEET

Damage (circle) 1/

- (Defoliation)
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- (Oak/pine)
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host

OAK

Secondary Host

SUGAR MAPLE

Tertiary Host

Survey Type (circle)

- (Aerial sketchmapping)
- (Ground)
- Photo
- Other
- Trapping

Damage Causing Agent

SADDLED PROMINENT

Scientific Name HETEROCAMPA GUTTIVITTA

County(s) Affected	Damage Acres or No. of Trees	Class 2/
WASHINGTON	APPROX. 2,211 ACRES	2

Comments (trend/treatment)

The approximate damage estimate in acres listed above, include light to heavy damaged areas. This survey of this insect was conducted only in the Arcadia Management Area and surrounding areas in Washington County. No other part of the state was surveyed for this insect. To date, no treatment has been performed. Pupal surveys have been conducted this fall, and egg and larval surveys will be conducted again in 1994, to keep track of this insect. It is difficult to state the trend of this insect at this time, but further field work will be done. Pupal counts this fall indicate that the egg and larval counts will be down in 1994.

1/ Do not list "Statewide".

2/ See back of form for damage class instructions.

RI

FOREST HEALTH WORKSHEET

Damage (circle) 1/

- (Defoliation)
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- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery
- (EASTERN HEMLOCK)

Principal Host

EASTERN HEMLOCK

Secondary Host

Tertiary Host

Survey Type (circle)

- Aerial sketchmapping
- (Ground)
- Photo
- Other
- Trapping

Damage Causing Agent

HEMLOCK WOOLLY ADELGID

Scientific Name ADELGES TSUGAE

County(s) Affected	Damage Acres or No. of Trees	Class 2/
PROVIDENCE	APPROX. 28 TREES	1
BRISTOL	" 41 "	2
KENT	" 46 "	1
WASHINGTON	" 9 "	2
NEWPORT	" 3 "	2

Comments (trend/treatment)

Plots are by Cynthia Parent Cumbie, Supv., FH for hemlock woolly adelgid survey, conducted from April 20, 1999 to July 20, 1999. Date of report is August 10, 1999. Approximately 95% of report represents the results of FH plots in Rhode Island. The other 5% of report, (ON THIS WORKSHEET) survey of areas. On residential properties, those west of the resulting area from the fungal may be for control, but it may take some time. Forested areas are difficult to assess impact. I feel the trend is that the HT will actually con- [illegible] Rhode Island.

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2/ See back of form for damage class instructions.

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FOREST HEALTH WORKSHEET

Damage (circle) 1/

- (Defoliation)
- Mortality
- (Dieback/Decline)
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- (White/red/jack pine)
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- Oak/pine
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host

RED PINE

Secondary Host

Tertiary Host

Survey Type (circle)

- Aerial sketchmapping
- Ground
- Photo
- (Other) SEE BELOW IN COMMENTS
- Trapping

Damage Causing Agent

RED PINE SCALE

Scientific Name MATSUCOCCUS RESINOSAE

County(s) Affected	Damage Acres or No. of Trees	Class 2/
WASHINGTON	75-100 ACRES (APPROX.)	2

Comments (trend/treatment)

Information on this breach was collected from Tom Green, Division of Forest Environmental, Rhode Island Department, Dave Miller, U.S. There were believed to have infestations in Washington County (approx. 75 - 100 acres affected), especially in Burlingame State Park, which is located in Washington County (approx. 30 - 50 acres affected in this park.) This breach has been present in Rhode Island for about 5 years and the trend, as I see it, is that the Red Pine Scale will continue to spread and be a continued problem in the future.

1/ Do not list "Statewide".

2/ See back of form for damage class instructions.

RI

FOREST HEALTH WORKSHEET

Damage (circle) 1/

- (Defoliation)
- Mortality
- Dieback/Decline
- Branch Breakage
- Mainstem Broken or Uprooted
- Discoloration
- Present but Below Threshold
- Healthy (optional)

Forest Type (circle)

- White/red/jack pine
- Eastern spruce/fir
- Longleaf/slash pine
- Loblolly/shortleaf pine
- (Oak/pine)
- Oak/hickory
- Oak/gum/cypress
- Elm/ash/red maple
- Maple/beech/birch
- Aspen/birch
- Urban/ornamental
- Nursery

Principal Host

WHITE + SCRUB OAK

Secondary Host

MAPLE, HICKORY, BIRCH + HAZEL NUT

Tertiary Host

Survey Type (circle)

- Aerial sketchmapping
- (Ground)
- Photo
- (Other) SEE COMMENTS BELOW
- Trapping

Damage Causing Agent

ORANGESTRIPED OAKWORM

Scientific Name ANISOTA SENATORIA

County(s) Affected	Damage Acres or No. of Trees	Class 2/
PROVIDENCE	APPROX. 600 ACRES	3

Comments (trend/treatment)

This information on the orangestriped oakworm was from Mr. Bob Waldron, Providence Water Supply Board, 552 Academy Avenue, Providence, RI 02907. The area affected with this insect is in the vicinity of the Scituate Reservoir, in Providence County, near Route 14 (Plainfield Pike) and Route 116. To date, only one generation has been noticed. I feel that with this information on this insect in this area, having gone this on residential properties as well, the threat for this insect in that the environmental factors will continue to be favorable in Rhode Island in the future.

1/ Do not list "Statewide".

2/ See back of form for damage class instructions.